

In the Specification:

Please amend the second full paragraph of page 8 to the following:

It should be readily apparent that the ratio of reference signal 122 to 124 need not be constant, i.e. $\text{signal 124} = \text{constant}(\text{signal 124})$ is not a requirement. The ratio could be set by any given function or a look up table stored in a memory of the controller. For example, the value of the signal 124 could be set as a function of the signal 122.

$$\text{Example 1: Signal 124} = \frac{\text{Signal 122}}{\text{Signal 122} + \text{Constant}}$$

$$\text{Example 2 : Signal 124} = \frac{10}{(\text{Signal 122})^2}$$

$$\text{Example 3 : Signal 124} = \text{constant , } \text{signal 122} < \text{threshold}$$

$$\text{Signal 124} = \text{signal 124 (second constant), signal 122} \geq \text{threshold}$$

Please amend the last paragraph of page 2 that continues to page 3 to the following:

In an alternate embodiment of the invention, if the speed of the conveyor falls below a threshold value, the brush roll speed is maintained at a minimum speed regardless of conveyor speed. As an illustration, it has been found that for certain brushes if brush speed drops below a threshold, cleaning efficiency suffers. In this embodiment, if the conveyor speed falls below 10 feet per minute, the brush speed is maintained at 300 [[rmp]]rpm. Above that conveyor speed, a linear relation between brush and conveyor speed is maintained until a maximum of 30 feet per minute and 644 rpm is achieved.

Please amend the second full paragraph of page 2 to the following:

It has been found that for certain brushes if brush speed drops below a threshold, cleaning efficiency suffers. Therefore in an alternate embodiment, if the conveyor speed falls below 10 feet per minute, the brush speed is maintained at 300 [[rmp]]rpm. Above that conveyor speed, a linear relation between brush and conveyor speed is maintained until a maximum of 30 feet per minute and 644 rpm is achieved.